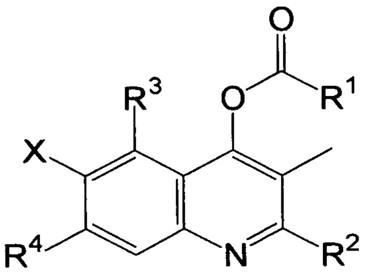
What is claimed is:

1. A mixture composition for controlling ectoparasites of mammals and birds, comprising as active ingredients:

(a) a compound of formula (I) or a salt thereof:



(I)

wherein

R^1 represents alkyl having 1 to 6 carbon atoms optionally substituted by a halogen atom or cyano; alkenyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano; alkynyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano; group $-O-R^5$ wherein R^5 represents alkyl having 1 to 6 carbon atoms optionally substituted by a halogen atom or cyano, alkenyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano, or alkynyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano; or group $-S-R^5$ wherein R^5 is as defined above,

R^2 represents alkyl having 1 to 4 carbon atoms optionally substituted by a halogen atom,

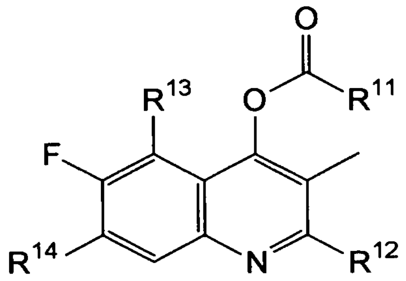
any one of R^3 and R^4 represents a hydrogen atom and the other represents a fluorine atom, a chlorine atom, a bromine atom, or trifluoromethyl, and

X represents a fluorine atom or a chlorine atom, and

(b) one or more compounds selected from the group consisting of pyrethroid insecticides.

2. The mixture composition according to claim 1, wherein the pyrethroid insecticide is selected from the group consisting of flumethrin, permethrin, and cyfluthrin.

3. The mixture composition according to claim 1, wherein the compound of formula (I) is represented by formula (Ia):



(Ia)

wherein

R^{11} represents alkyl having 1 to 4 carbon atoms optionally substituted by a halogen atom or alkoxy having 1 to 4 carbon atoms optionally substituted by a halogen atom;

R^{12} represents alkyl having 1 to 4 carbon atoms optionally substituted by a halogen atom; and

any one of R^{13} and R^{14} represents a hydrogen atom and the other represents a fluorine or chlorine atom.

4. The mixture composition according to claim 1, wherein the compound of formula (I) is selected from the group consisting of:

2-ethyl-3-methyl-4-cyclopropanecarbonyloxy-5,6-difluoroquinoline (Compound 2);

2-ethyl-3-methyl-4-acetyloxy-5-chloro-6-fluoroquinoline (Compound 19);

2-ethyl-3-methyl-4-methoxycarbonyloxy-5,6-difluoroquinoline (Compound 24);

2,3-dimethyl-4-methoxycarbonyloxy-5,6-difluoroquinoline (Compound 25);

2-ethyl-3-methyl-4-methanethiolcarbonyloxy-5,6-difluoroquinoline (Compound 39);

2-ethyl-3-methyl-4-propargyloxycarbonyloxy-5,6-difluoroquinoline (Compound 41);

2,3-dimethyl-4-acetoxy-5,6-difluoroquinoline (Compound 44);

2,3-dimethyl-4-methanethiolcarbonyloxy-5,6-difluoroquinoline (Compound 46);

2,3-dimethyl-4-propargyloxycarbonyloxy-5,6-difluoroquinoline (Compound 50);

2,3-dimethyl-4-(3-butynyl)oxycarbonyloxy-5,6-difluoroquinoline (Compound 52);

2-ethyl-3-methyl-4-(3-butynyl)-oxycarbonyloxy-5,6-difluoroquinoline (Compound 56);

2,3-dimethyl-4-allyloxycarbonyloxy-5,6-difluoroquinoline (Compound 57);

2,3-dimethyl-4-acetoxy-5,6-dichloroquinoline (Compound 65); and

2,3-dimethyl-4-methoxycarbonyloxy-5,6-dichloroquinoline (Compound 67).

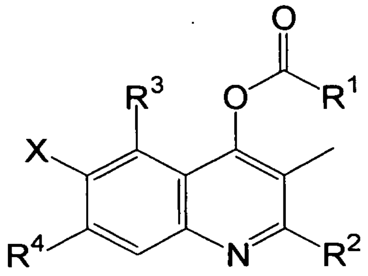
5. The mixture composition according to claim 1, wherein the ectoparasite is selected from the group consisting of Anoplura, Mallophaga, Siphonaptera, Mesostigmata, and Diptera.

6. A method for controlling an ectoparasite of mammals and birds, comprising the step of administering an effective amount of the mixture composition according to claim 1 to a mammal or a bird of interest.

7. The method according to claim 6, wherein the ectoparasite is selected from the group consisting of Anoplura, Mallophaga, Siphonaptera, Mesostigmata, and Diptera.

8. A combination comprising:

(a) a compound of formula (I) or a salt thereof:



(I)

wherein

R^1 represents alkyl having 1 to 6 carbon atoms optionally substituted by a halogen atom or cyano; alkenyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano; alkynyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano; group $-O-R^5$ wherein R^5 represents alkyl having 1 to 6 carbon atoms optionally substituted by a halogen atom or cyano, alkenyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano, or alkynyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano; or group $-S-R^5$ wherein R^5 is as defined above,

R^2 represents alkyl having 1 to 4 carbon atoms optionally substituted by a halogen atom,

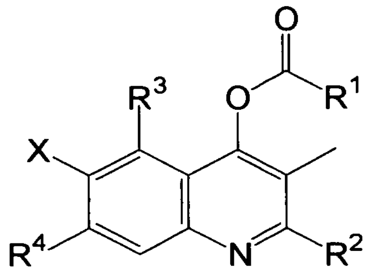
any one of R^3 and R^4 represents a hydrogen atom and the other represents a fluorine atom, a chlorine atom, a bromine atom, or trifluoromethyl, and

X represents a fluorine atom or a chlorine atom, and

(b) one or more compounds selected from the group consisting of pyrethroid insecticides.

9. A method for controlling an ectoparasite of mammals and birds, comprising the step of administering simultaneously or separately to a mammal or a bird of interest:

(a) a compound of formula (I) or a salt thereof:



(I)

wherein

R^1 represents alkyl having 1 to 6 carbon atoms optionally substituted by a halogen atom or cyano; alkenyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano; alkynyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano; group $-O-R^5$ wherein R^5 represents alkyl having 1 to 6 carbon atoms optionally substituted by a halogen atom or cyano, alkenyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano, or alkynyl having 2 to 6 carbon atoms optionally substituted by a halogen atom or cyano; or group $-S-R^5$ wherein R^5 is as defined above,

R^2 represents alkyl having 1 to 4 carbon atoms optionally substituted by a halogen atom,

any one of R^3 and R^4 represents a hydrogen atom and the other represents a fluorine atom, a chlorine atom, a bromine atom, or trifluoromethyl, and

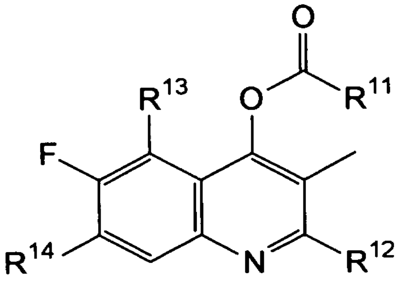
X represents a fluorine atom or a chlorine atom, and

(b) one or more compounds selected from the group consisting of pyrethroid insecticides.

10. The method according to claim 9, wherein the pyrethroid insecticide is selected from the group consisting of flumethrin, permethrin, and cyfluthrin.

11. The method according to claim 9, wherein the

compound of formula (I) is represented by formula (Ia):



(Ia)

wherein

R^{11} represents alkyl having 1 to 4 carbon atoms optionally substituted by a halogen atom or alkoxy having 1 to 4 carbon atoms optionally substituted by a halogen atom;

R^{12} represents alkyl having 1 to 4 carbon atoms optionally substituted by a halogen atom; and

any one of R^{13} and R^{14} represents a hydrogen atom and the other represents a fluorine or chlorine atom.

12. The method according to claim 9, wherein the ectoparasite is selected from the group consisting of Anoplura, Mallophaga, Siphonaptera, Mesostigmata, and Diptera.